

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hak Seong KIM</td> <td>10/07/2011</td> </tr> <tr> <td>Joon Kui AHN</td> <td>10/07/2011</td> </tr> <tr> <td>Han Byul SEO</td> <td>10/07/2011</td> </tr> <tr> <td>Byoung Hoon KIM</td> <td>10/07/2011</td> </tr> <tr> <td>Ki Jun KIM</td> <td>10/07/2011</td> </tr> </tbody> </table>		Name	Execution Date	Hak Seong KIM	10/07/2011	Joon Kui AHN	10/07/2011	Han Byul SEO	10/07/2011	Byoung Hoon KIM	10/07/2011	Ki Jun KIM	10/07/2011
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Byoung Hoon KIM	10/07/2011												
Ki Jun KIM	10/07/2011												
RECEIVING PARTY DATA													
Name:	LG ELECTRONICS INC.												
Street Address:	20 Yeouido-dong Yeongdeungpo-gu												
City:	Seoul												
State/Country:	REPUBLIC OF KOREA												
Postal Code:	150-721												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13380689</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13380689								
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CORRESPONDENCE DATA													
Fax Number:	(703)205-8050												
Phone:	703-205-8000												
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	BIRCH, STEWART, KOLASCH & BIRCH, LLP												
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Address Line 4:	Falls Church, VIRGINIA 22040-0747												
ATTORNEY DOCKET NUMBER:	5438-0287PUS1												
NAME OF SUBMITTER:	DAVID A. BILODEAU												
Total Attachments: 2 source=2011-12-22 Assignment 5438-0287PUS1#page1.tif source=2011-12-22 Assignment 5438-0287PUS1#page2.tif													

CH \$40.00 13380689

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 13/380,689Filed December 23, 2011Insert Name(s)
of Inventor(s)

*** (Given Name FAMILY NAME (ALL CAPS)) ***

WHEREAS, KIM, Hak Seong; AHN, Joon Kui; SEO, Han Byul; KIM, Byoung Hoon and KIM, Ki Jun (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title
of Invention

METHOD AND DEVICE FOR SIGNAL TRANSMISSION ON A WIRELESS COMMUNICATIONS SYSTEM

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date
of Signing of
Applicationon October 7, 2011; andInsert Name
of Assignee
Insert Address
of Assignee

WHEREAS, LG ELECTRONICS INC.

of 20 Yeouido-dong Yeongdeungpo-gu Seoul 150-721 Republic of Korea

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX
IF APPROPRIATE☒ in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

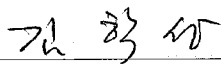

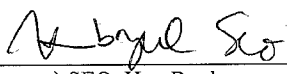
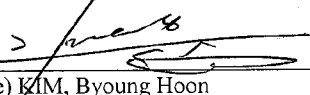
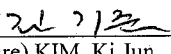
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>2011.10.7</u> ,	Name of Inventor <u></u> (signature) KIM, Hak Seong
Date <u>2011.10.7</u> ,	Name of Inventor <u></u> (signature) AHN, Joon Kui
Date <u>2011.10.7</u> ,	Name of Inventor <u></u> (signature) SEO, Han Byul
Date <u>2011.10.7</u> ,	Name of Inventor <u></u> (signature) KIM, Byoung Hoon
Date <u>2011.10.7</u> ,	Name of Inventor <u></u> (signature) KIM, Ki Jun